

1 AMPLIFIED MODULES

Connect four (4) A-BUS® Amplified Control Modules to the A-H4D Hub using CAT-5 cables. Both the Hub and the Amplified Modules use 110 punchdown connectors for the 8 individual conductors of the CAT-5 cable (use a punchdown tool with a 110 blade to insert the conductors).

2 IR EMITTERS

Common IR Outputs. Connect an IR emitter such as the 845.1 to each of the 4 IR connectors on the front of the A-H4D (you need use only one IR emitter if you've connected a single source directly to the A-H4D). The IR signal that is received through a zone's Amplified Control Module is routed to the A-H4D's Common IR outputs. This allows remote operation of sources such as CD, DVD or DSS from each zone.

3 STATUS

The status feature provides two functions:

- Visually confirms when the source component is on
- When the source component is turned off, all Amplified Modules will also turn off

The status feature requires that the source component has a switched AC outlet.

To enable the status feature:

- Move the status jumper on all Amplified Modules to the "Enabled" position.
- Move the jumper on the A-H4D to the "2-3" position.
- Using a Russound® Model 846C 120V/12VDC or comparable adapter, connect the coaxial plug end to the STATUS input on the Hub, and plug the adapter into a switched AC outlet on the source component.

When the source is on and supplying status voltage to the Hub, the Amplified Keypad Module's LED indicator will illuminate green.

When the source is turned off, all Amplified Control Modules that are on will also turn off (the A-VC will mute).

IMPORTANT: When the status feature is enabled, it must be used (i.e., supplied with power) in order to ensure proper operation with accessories such as the A-LC2 Local Source Input Module.

4 A-H4Dx EXPANSION HUB

The A-H4Dx is an Expansion Hub for the A-H4D that provides connections for 4 additional Amplified Control Modules. It plugs into the side of the A-H4D. Multiple A-H4Dx Hubs can be added. Each A-H4Dx requires its own A-PS power supply.

5 SOURCE

Although the A-H4D has only 1 audio input, it can be connected to multiple audio sources via the Tape 2 or Zone 2 output of a stereo or home theater receiver. Connecting to a receiver gives the A-H4D access to any audio source connected to that receiver. If a single audio source is connected directly, it can be shared with the receiver by using the Audio Out on the A-H4D.

6 POWER SUPPLY

The A-H4D Hub and Amplified Control Modules are powered by the A-PS 24VDC/2.5A power supply. The A-PS should be plugged into an unswitched AC outlet (one that is live all the time).

7 OPERATION

A-KP2 keypads can be operated manually or by using the optional A-KP RC remote control. A-VC volume controls are operated manually using the rotary knob. If you installed IR emitters (see Step 2), then sources can be operated with their own remote control by aiming it at the IR window on an A-KP2 keypad.

8 MOUNTING

Install the A-H4D near your receiver and source components. Check all connections and test the system's operation before installing the A-H4D into the wall. Using the included hardware, install the A-H4D into a standard UL/CSA approved electrical J-Box as shown.

English

A-BUS®

Model A-H4D In-Wall, 4-Zone Hub for A-BUS® System Instruction Manual

A-BUS® SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound® A-BUS® Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS® technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS® technology provides many advantages over other methods of audio distribution, including: simple, single CAT-5 wiring scheme; infrared control of system components; infrared control of the optional A-KP2 amplified keypad module; and system power status.

Every A-BUS® System is comprised of components from each of the following three areas.

1. **A-BUS® Amplified Control Modules:** The Module contains both the amplifier for the room's speakers as well as the control for those speakers. One Module should be used for each room you choose to control. The Russound® A-KP2 Amplified Keypad (with built-in IR receiver) and A-VC Amplified Volume Control are examples of A-BUS® Amplified Control Modules.
2. **A-BUS® Hubs:** All components of the A-BUS® system must be wired centrally to a Hub located near your source equipment. The Hub provides the connection for source equipment, volume controls, infrared emitters and power supply. The A-H484, A-H4, A-H4D, and A-H2 are examples of A-BUS® Hubs. The A-H484, A-H4, and A-H2 are surface-mount units. The A-H4D is an in-wall Decora® style unit.
3. **Power Supply:** The power supply plugs into the Hub. The Russound® A-PS 24VDC/2.5A unit is an example.

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Decora® is a trademark of Leviton Corporation

Russound®
A-V DISTRIBUTION & CONTROL SYSTEMS
5 Forbes Rd. Newmarket, NH 03857, USA
☎ 603.659.5170 • Fax 603.659.5388
e-mail: tech@russound.com

the right
connection

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www.russound.com

A-H4D OVERVIEW

The A-H4D is an A-BUS® in-wall, 4-zone, 1-source Audio Distribution Hub used with A-BUS® Amplified Control Modules. The A-H4D can accommodate 4 additional Amplified Control Modules when used with the A-H4Dx Expansion Hub, which plugs into the side of the A-H4D.

IMPORTANT – Before installation, review the manuals included with each component in your system. If you are unsure of any of the installation procedures described herein or elsewhere, consult a professional electronics installer.

A-H4D KEY FEATURES

- 1) 1 source audio input and loop output
- 2) 4 common IR outputs
- 3) Status power input with selector jumper (on rear)
- 4) Power input
- 5) Link In and Out
- 6) Plug-in connection for A-H4Dx Expansion Hub
- 6) Decora® faceplate (2-gang)
- 7) Front-panel connections for Audio, IR Emitters, Power, and Status

A-H4D SPECIFICATIONS

Power Supply:	A-PS. 24VDC/2.5A.
Status Power:	12VDC/100mA.
Keypad Connection:	CAT-5, 110 Punchdowns
Link Connection:	CAT-5, 110 Punchdowns
Expansion Connection:	8-pin female connector
Emitter Connections:	1/8" Male. Tip (+), sleeve (-)
Dimensions:	3.54"W x 2.91"H x 1.456"D (90x74x37mm)
Weight:	8 oz. (226g)

LIMITED WARRANTY

The Russound® A-H4D is fully guaranteed for Two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound® will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound®. The unit must be returned to Russound® at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound® assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound®. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound® at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit. Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.